BEYOND TRAFFIC:
THE SMART CITY CHALLENGE

LIMIT 35 SAFETY

MOBILITY

ENVIRONMENT

The U.S. Department of Transportation (USDOT) *Beyond Traffic 2045: Trends and Choices* study indicates that many communities will experience rapid population increases and rapidly growing demands on their transportation infrastructure in the next few decades. The Smart City Challenge is designed to help cities begin to address the difficulties these trends present. To show what is possible when communities use technology to connect transportation assets into an interactive network, the Smart City Challenge will concentrate federal resources into one medium-sized city, selected through a nationwide competition. Funding of up to $40 million will go to the mid-sized city to demonstrate how advanced data and ITS technologies and applications can be used to reduce congestion, keep travelers safe, protect the environment, respond to climate change, connect underserved communities, and support economic vitality.
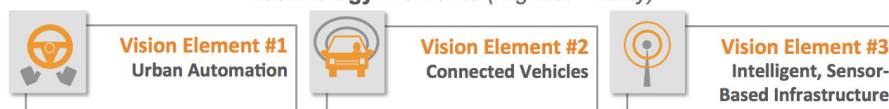
Phase 1: Proposals for Phase 1's Notice of Funding Opportunity are due February 4, 2016, at 3:00 pm ET. Applicants are asked to include a high-level vision of proposed demonstration, framework, and initial concepts tailored to their city. Fixed amount cooperative agreements of $100,000 will be awarded to an estimated five Smart City Challenge finalists to support concept development and planning activities.

Phase 2: Finalists will further develop their concepts for demonstration. One city will be selected to implement its proposed concept. The USDOT will provide funding of up to $40 million to the winning city. In addition, Vulcan is offering an additional $10 million to the winning city to support infrastructure for electric vehicles and the winning city's public bus system will receive Mobileye's Shield +TM technology on its entire bus fleet.
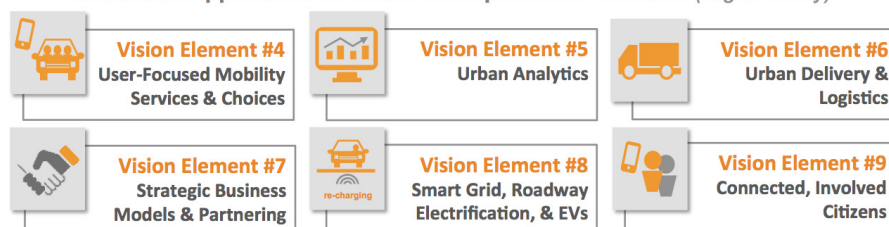
USDOT's Vision For a Smart City

To assist cities, the USDOT identified 12 vision elements that are intended to provide a framework for applicants to consider in the development of a city's proposed demonstration without making each item a requirement for award.

Technology Elements *(Highest Priority)*

Vision Element #1
Urban Automation

Vision Element #2
Connected Vehicles

Vision Element #3
Intelligent, Sensor-Based Infrastructure

Innovative Approaches to Urban Transportation Elements *(High Priority)*

Vision Element #4
User-Focused Mobility Services & Choices

Vision Element #5
Urban Analytics

Vision Element #6
Urban Delivery & Logistics

Vision Element #7
Strategic Business Models & Partnering

Vision Element #8
Smart Grid, Roadway Electrification, & EVs

Vision Element #9
Connected, Involved Citizens

Smart City Elements *(Priority)*

Vision Element #10
Architecture & Standards

Vision Element #11
Low-Cost, Efficient, Secure, & Resilient ICT

Vision Element #12
Smart Land Use

Attributes of the Ideal Candidate

- Mid-sized city with a population between approximately 200,000 and 850,000 people

- A population density typical of a mid-sized city

- Represents a significant portion (more than 15 percent) of the overall population of its urban area

- An established public transportation system

- An environment that is conducive to demonstrating proposed strategies

- Leadership and capacity to carry out the demonstration

- A commitment to integrating with the sharing economy

- A clear commitment to making data open to fuel entrepreneurship and innovation.

For More Information

For more information on the Smart City Challenge – including presentations and recordings from Information Sessions, visit: www.transportation.gov/smartcities.

For questions about the Notice of Funding Opportunity, email the USDOT at: SmartCityChallenge@dot.gov.

U.S. Department of Transportation